## ABSTRACT OF THE DISCLOSURE

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The efficacy of an interferon  $\beta$  treatment is evaluated by using a database on correlation between the efficacy of the interferon  $\beta$  treatment and the gene expression levels of at least one interferon induced protein gene, at least one interferon regulation factor gene, and at least one chemokine gene, and determining the expression levels of the genes in messenger RNAs derived from leukocytes in the peripheral blood of a subject.